

Chemical Analysis Of Firearms Ammunition And Gunshot Residue International Forensic Science And Investigation By James Smyth Wallace 2 Jun 2008 Hardcover

Chemical Analysis of Firearms, Ammunition, and Gunshot Residue *Handbook of Firearms and Ballistics* **Firearms Identification Using Pattern Analysis and Computational Modeling** *Forensic Analysis of Gunshot Residue, 3D-printed Firearms, and Gunshot Injuries* **The Identification of Firearms** *Firearms and Violence* **Forensic Analysis Ballistic Imaging** *Chemical Analysis of Firearms, Ammunition, and Gunshot Residue* **Firearms and Fingerprints, Revised Edition** **Gunshot Wounds Forensic Firearm Examination** *Forensic Ballistics in Court* *Firearms, the Law, and Forensic Ballistics* *Online Child Sexual Exploitation* **Regulating Gun Sales** *An analysis of the initial year of operation CUE in the cities of Washington, D.C., Boston, Mass., Chicago, Ill* *Current Methods in Forensic Gunshot Residue Analysis* **Practical Analysis and Reconstruction of Shooting Incidents** *Investigating Gun Crimes* *Gun Policy. A critical analysis of firearm laws in the United States of America* **Ballistics Shooting Incident Reconstruction** **The Recovery, Characterization and Assessment of Contact DNA from Firearms Using a QPCR Triplex Method and STR Analysis Report to the President** **Strengthening Forensic Science in the United States** *Reducing Gun Violence in America* *Firearm and Toolmark Examination and Identification* **Etrace Targeting Guns** *Gunshot Wounds The Behavioral Science of Firearms* **Firearms: An Illustrated History** *Forensic Investigation of Unusual Firearms* *Strategies for Disrupting Illegal Firearm Markets* **Modernity at Gunpoint** **Use of Firearms and Their Control** *Practical Analysis and Reconstruction of Shooting Incidents* *Bodies of Evidence* *Firearms Identification*

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Regulating Gun Sales Jul 10 2021 This excerpt from the “masterful, timely, data-driven” study of the gun control debate examines the potential of stronger purchasing laws (Choice). As the debate on gun control continues, evidence-based research is needed to answer a crucial question: How do we reduce gun violence? One of the biggest gun policy reforms under consideration is the regulation of firearm sales and stopping the diversion of guns to criminals. This selection from the major anthology of studies *Reducing Gun Violence in America* presents compelling evidence that stronger purchasing laws and better enforcement of these laws result in lower gun violence. Additional material for this edition includes an introduction by Michael R. Bloomberg and Consensus Recommendations for Reforms to Federal Gun Policies from the Johns Hopkins University.

Chemical Analysis of Firearms, Ammunition, and Gunshot Residue Feb 17 2022 *Chemical Analysis of Firearms, Ammunition, and Gunshot Residue, Second Edition* continues in the tradition of the popular first edition, filling the void in forensic texts on the subject. While most books on firearms focus solely on the physical aspects of firearms, this book addresses forensic issues relating to the chemical aspects of firearms and ammunition. It draws on the latest published literature including books, scientific papers, technical reports, manufacturer’s literature, newspaper articles, and personal observations and research conducted by the author. This edition is fully updated, introducing the history and development of firearms and ammunition including advances in the chemical analysis of them. Several changes in primer compositions and the particle classification system are addressed with new techniques added on evidence collection and testing methods. Coverage details chemical aspects of forensic firearms casework with particular emphasis on the detection of gunshot residues (GSR), firearm discharge residues (FDR), and cartridge discharge residues (CDR) on a suspect’s skin and clothing surfaces. Two new chapters have been added. One deals with unusual firearms case while the other summarizes a controversial, high-profile Australian case involving inorganic and organic gunshot residue, highlighting the dangers of incorrect forensic evidence and the increased need for careful training of forensic scientists. Fully updated to reflect the latest techniques and tests for particle and chemical classification Provides a complete history of firearms and ammunition development as well as advances in the chemical analysis involved in forensic firearm casework Features a one-of-a-kind chapter on processing suspects, a crucial component in many

firearms and explosives residue cases The book will serves as a useful to forensic chemists, investigators, ballistics experts, among other professionals serving in a variety of forensic disciplines.

Forensic Firearm Examination Nov 14 2021 *Forensic Firearm Examination* provides the reader with a thorough understanding of theory, application, and process of firearm comparison. It is essential in the field of forensic firearm examination to not only understand the marks that examiners are observing, but more importantly learn where these marks come from during the manufacturing process. This book explores the various machining techniques utilized in the manufacturing process and the resulting marks left by those tools. This information will equip the examiner with the knowledge to answer questions posed by the legal system regarding the uniqueness or potential similarity of marks on firearms imparted to fired bullets and cartridge cases. Intended primarily for firearm and tool mark examiners, this valuable resource serves as a primary requirement for the training of firearm and tool mark examiners. Other forensic science disciplines who rely on pattern matching as a primary determining factor whether or not two objects may share a common source would also find utility in this work. Finally, it will be a valuable resource for attorneys who are seeking to understand better the scientific aspects of firearm identification. Written by a foremost expert in the field, *Forensic Firearm Examination* explores specific firearm manufacturing techniques and the resulting marks, which has not been covered in any book publication. Chris Monturo has over 23 years of experience as forensic firearm and tool mark examiner. Additionally, he is a distinguished member of the Association of Firearm and Tool Mark Examiners (AFTE), a past member of the Scientific Working Group for Firearm and Tool Marks (SWGUN), past member of the Organization of Scientific Area Subcommittees (OSAC) for firearm and tool marks and has instructed courses in machining for the firearm examiner in the United States and Internationally. Provides reader with a thorough understanding of theory, application, and process of firearm identification Topics include the manufacturing process of all components that interact with the bullet or case during firing, the nature of manufacturing and potential pitfalls, such as subclass

Modernity at Gunpoint Oct 21 2019 *Modernity at Gunpoint* provides the first study of the political and cultural significance of weaponry in the context of major armed conflicts in Mexico and Central America. In this highly original study, Sophie Esch approaches political violence through its most direct but also most symbolic tool: the firearm. In novels, songs, and photos of insurgency, firearms appear as artifacts, tropes,

and props, through which artists negotiate conceptions of modernity, citizenship, and militancy. Esch grounds her analysis in important rereadings of canonical texts by Martín Luis Guzmán, Nellie Campobello, Omar Cabezas, Gioconda Belli, Sergio Ramírez, Horacio Castellanos Moya, and others. Through the lens of the iconic firearm, Esch relates the story of the peasant insurgencies of the Mexican Revolution, the guerrilla warfare of the Sandinista Revolution, and the ongoing drug-related wars in Mexico and Central America, to highlight the historical, cultural, gendered, and political significance of weapons in this volatile region.

Chemical Analysis of Firearms, Ammunition, and Gunshot Residue Oct 25 2022 Firearms and their associated ammunition, spent bullets, and spent cartridge cases provide useful information for identifying suspects, terrorist groups, and the criminal history of a weapon. Unfortunately, despite the numerous detailed books on the physical aspects of firearms, very little has been published on the chemical aspects, and what has b

An analysis of the initial year of operation CUE in the cities of Washington, D.C., Boston, Mass., Chicago, Ill Jun 09 2021

Gunshot Wounds Dec 15 2021 Written by the nation's foremost authority on gunshot wounds and forensic techniques as they relate to firearm injuries, *Gunshot Wounds: Practical Aspects of Firearms, Ballistics, and Forensic Techniques, Second Edition* provides critical information on gunshot wounds and the weapons and ammunition used to inflict them. The book describes practical aspects of ballistics, wound ballistics, and the classification of various wounds caused by handguns, bang guns, rifles, and shotguns. The final chapters explain autopsy technique and procedure and laboratory analysis relating to weapons and gunshot evidence.

Etrace May 28 2020

The Recovery, Characterization and Assessment of Contact DNA from Firearms Using a QPCR Triplex Method and STR Analysis Nov 02 2020

Firearms Identification Using Pattern Analysis and Computational Modeling Aug 23 2022 This paper describes a computational approach to the analysis of firearms forensic images, in particular, bullet images. Expended bullets usually bear characteristic surface markings associated with the mechanisms of the firearm that fired them. The traditional method of comparing bullet and cartridge markings involves the labor-intensive process of visual identification through a comparison microscope. This project proposes that the same process can be duplicated, and accelerated, using a low-cost video imaging and image processing system. The development of this project requires three important phases - "collection", "processing", and "analysis". In a laboratory scenario, the "barcodes" of the crime bullet and test bullet images are matched against each other. The barcode of the crime bullet is also matched against the barcodes of other potentially similar bullet images from the image database. A probability of match is generated for each comparison, and bullet images with a low probability of match are ignored. This effectively reduces the firearms examiner's workload. The bullet images with a high probability of match are retrieved, and displayed simultaneously to confirm the match -- Author abstract.

Reducing Gun Violence in America Jul 30 2020 The book includes an analysis of the constitutionality of many recommended policies and data from a national public opinion poll that reflects support among the majority of Americans—including gun owners—for stronger gun policies.

[Firearms, the Law, and Forensic Ballistics](#) Sep 12 2021 *Firearms, the Law, and Forensic Ballistics, Second Edition* offers a comprehensive reference on the forensic science of firearms. It describes what happens when a weapon is fired in terms of internal, external, and terminal/ wound ballistics, and discusses the consequences for the forensic scientist both at the scene of the shooting and in the labor

Report to the President Oct 01 2020 Published and needed studies for pattern-based forensic science methods What studies have been published in the past 5 years that support the foundational aspects of each of the pattern-based forensic science methods, including (but not limited to) latent print analysis; firearms/toolmarks; shoe/tire prints; bitemark analysis; questioned documents? What studies are needed to demonstrate the reliability and validity of these methods? Have studies been conducted to establish baseline frequencies of characteristics or features used in these pattern-based matching techniques? If not, how might such studies be conducted? What publicly accessible databases exist that could support such

studies? What closed databases exist? Where such databases exist, how are they controlled and curated? If studies have not been conducted, what conclusions can and cannot be stated about the relationship between the crime scene evidence and a known suspect or tool (e.g., firearm)? How is performance testing (testing designed to determine the frequency with which individual examiners obtain correct answers) currently used in forensic laboratories? Are performance tests conducted in a blind manner? How could well-designed performance testing be used more systematically for the above pattern-based techniques to establish baseline error rates for individual examiners? What are the opportunities and challenges for developing and employing blind performance testing? What studies have been published in this area? What are the most promising new scientific techniques that are currently under development or could be developed in the next decade that would be most useful for forensic applications? Examples could include hair analysis by mass spectrometry, advances in digital forensics, and phenotypic DNA profiling. What standards of validity and reliability should new forensic methods be required to meet before they are introduced in court? Are there scientific and technology disciplines other than the traditional forensic science disciplines that could usefully contribute to and/or enhance the scientific, technical and/or societal aspects of forensic science? What mechanisms could be employed to encourage further collaboration between these disciplines and the forensic science community?

The Identification of Firearms Jun 21 2022 The 1930s was a decade that provided impressive breakthroughs in the field of forensic ballistics, or firearms identification. Following the St. Valentine's Day Massacre of 1929, where ballistic expert Calvin Goddard's testimony brought attention to the relatively new field, several forensic ballistic books were published. Among these were Burrard's *The Identification of Firearms and Forensic Ballistics* and Hatcher's *Textbook of Firearms Investigations, Identification, and Evidence*. Burrard introduced forensic examination to the British judicial system; Hatcher applied his considerable knowledge of firearms and ammunition to weapons' design, manufacture, and testing. Gunthers' *The Identification of Firearms* combined the approaches of these volumes into a new book that emphasized both the painstaking scientific methodology vital to firearms identification, complete with ballistics photographs, and its practical use by analyses of several legal cases where firearms identification was used. These include the infamous Sacco-Vanzetti case, the first in American legal history where forensic ballistics played a very prominent role in courtroom proceedings. The Gunther brothers utilized their respective legal and military experience to provide a comprehensive reference volume that is noteworthy for those interested in law enforcement or ballistics as well as gun enthusiasts.

[Firearms Identification](#) Jun 16 2019

Strengthening Forensic Science in the United States Aug 31 2020 Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. *Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Targeting Guns Apr 26 2020 This new paperback comprehensively reviews the research evidence on the links between guns, violence, and gun control, and reports results of the author's own research as well. In *Targeting Guns*, Kleck follows the line of argument and careful statistical inference of his earlier prizewinning volume, *Point Blank*, while updating the literature reviews and statistical information, and

adding two chapters.

Strategies for Disrupting Illegal Firearm Markets Nov 21 2019 Could a data-driven, problem-solving approach yield new interventions to disrupt local, illegal gun markets serving criminals, gang members, and juveniles in Los Angeles? Law enforcement can analyze patterns in crime-gun data to trace illicit firearm acquisition, use community-based interventions to stem the illegal flow, and use retail ammunition-purchase records in identifying prohibited firearm possessors.

Investigating Gun Crimes Mar 06 2021 An explosion propels a bullet from a firearm, a life is taken, and a gun crime has been committed. This book uses true life crime stories from early cases like the St. Valentine's Day Massacre to more recent war crimes in Croatia to engage readers while educating them on forensic firearm analysis, which includes identifying basic types of firearms and bullets, matching bullet toolmarks to a specific gun, and gathering crime scene evidence. This book is excellent for readers interested in STEM, as forensic firearm analysis is a multidisciplinary field that incorporates chemistry, microscopy, physics, medical pathology, and deductive reasoning.

Forensic Analysis Apr 19 2022 Since the 1960s, testimony by representatives of the Federal Bureau of Investigation in thousands of criminal cases has relied on evidence from Compositional Analysis of Bullet Lead (CABL), a forensic technique that compares the elemental composition of bullets found at a crime scene to the elemental composition of bullets found in a suspect's possession. Different from ballistics techniques that compare striations on the barrel of a gun to those on a recovered bullet, CABL is used when no gun is recovered or when bullets are too small or mangled to observe striations. *Forensic Analysis: Weighing Bullet Lead Evidence* assesses the scientific validity of CABL, finding that the FBI should use a different statistical analysis for the technique and that, given variations in bullet manufacturing processes, expert witnesses should make clear the very limited conclusions that CABL results can support. The report also recommends that the FBI take additional measures to ensure the validity of CABL results, which include improving documentation, publishing details, and improving on training and oversight.

Firearm and Toolmark Examination and Identification Jun 28 2020 The Advanced Forensic Science Series grew out of the recommendations from the 2009 NAS Report: "Strengthening Forensic Science: A Path Forward." This volume, *Firearm and Toolmark Examination and Identification*, will serve as a graduate-level text for those studying and teaching firearm and toolmark examination and identification. It will also prove an excellent reference for forensic practitioner's libraries or use in their casework. Coverage includes a wide variety of tools and toolmarks, analysis of gunshots, ammunition, gunshot wounds and professional issues they may encounter. Provides basic principles of forensic science and an overview of firearms and toolmarks Contains information on a wide variety of tools and toolmarks Covers the analysis and interpretation of gunshots, ammunition and gunshot wounds Includes a section on professional issues, such as: from crime scene to court, lab reports, and health and safety Incorporates effective pedagogy, key terms, review questions, discussion question and additional reading suggestions

Current Methods in Forensic Gunshot Residue Analysis May 08 2021 With the ever-spreading problem of violent crime in today's society, techniques to assist forensic scientists and other law enforcement personnel have come to the forefront. With improvement in collection methods and analytical tools to conduct more thorough analyses, gunshot residue examination has made a dramatic impact as an area of trace evidence

Firearms: An Illustrated History Jan 24 2020 This fascinating visual account of firearms shows everything from the earliest cannons to modern weapons of war. It also highlights how gun technology and military tactics developed in tandem over time. Centuries ago, the Chinese discovered that if they put gunpowder and a projectile into a metal tube and ignited it, they could fire the projectile with enormous force. The first guns were born. *Firearms: An Illustrated History* showcases over 300 firearms including pistols, revolvers, rifles, shotguns, machine-guns, and artillery, each with annotated close-up photographs and details of their origins, barrel, and caliber. It details the use of the firearms, not just in the military but for sport, hunting, and law enforcement. This comprehensive volume traces the history of firearms, highlighting "turning points" such as the rifle with its parallel spiraled grooves that could impart a spin to bullets making them fly straighter. It also showcases iconic firearms such as the Walther PPK self-loading pistol popularised in James Bond films. With information on the great gunsmiths including Beretta and

Kalashnikov and a detailed guide to how guns work, *Firearms: An Illustrated History* is an essential purchase for everyone interested in guns and military history.

Gunshot Wounds Mar 26 2020 Written by the nation's foremost authority on gunshot wounds and forensic techniques as they relate to firearm injuries, this third edition of a bestseller provides critical updates to information on gunshot wounds and the weapons and ammunition used to inflict them. The book describes practical aspects of ballistics, wound ballistics, and the classification of various wounds caused by handguns, rifles, and shotguns. It also explains autopsy techniques and procedures and laboratory analyses relating to weapons and gunshot evidence. A much-needed update after nearly 20 years, the third edition of *Gunshot Wounds* provides the latest and most thorough information on firearms and best practices for examining firearm-related wounds.

Forensic Investigation of Unusual Firearms Dec 23 2019 In recent years, the use of illegally produced firearms has increased exponentially worldwide. These are often cheap, nonstandard firearms that defy known classification and identification criteria. The use of unusual firearms in crimes has frequently led to unpredictable and misleading reconstruction of shooting incidents. In this book, international

Ballistics Jan 04 2021 When a crime is committed with a firearm or an explosive, the first people the police turn to are often ballistic analysts. By examining angles, bullets, and explosive residue, these scientists analyze the behavior of projectiles, such as bullets. Readers learn both how ballistics research is performed and how law enforcement officials use these findings to solve crimes. The detailed main text is supplemented with engaging fact boxes, unique sidebars, and photographs that give readers an up-close look into the scientific world of ballistic studies.

Use of Firearms and Their Control Sep 19 2019

Handbook of Firearms and Ballistics Sep 24 2022 The updated second edition of *Handbook of Firearms and Ballistics* includes recent developed analytical techniques and methodologies with a more comprehensive glossary, additional material, and new case studies. With a new chapter on the determination of bullet caliber via x-ray photography, this edition includes revised material on muzzle attachments, proof marks, non-toxic bullets, and gunshot residues. Essential reading for forensic scientists, firearms examiners, defense and prosecution practitioners, the judiciary, and police force, this book is also a helpful reference guide for undergraduate and graduate forensic science students.

Practical Analysis and Reconstruction of Shooting Incidents Aug 19 2019 The ultimate goal of collecting, preserving, and examining physical evidence is individualization - associating each piece with its responsible source. Firearms evidence in particular has the potential to individualize its source. Accessible and comprehensive, *Practical Analysis and Reconstruction of Shooting Incidents* provides the foundation necessary to develop and sharpen the skills used to investigate shooting incidents. It provides an explanation of what constitutes pertinent evidence and appropriate results pertaining to autopsies, forensic laboratory analysis, and reenactments. The text also reviews basic firearm design, function, ammunition components, and the terminology required for understanding evidence encountered at the scene. The book explains the basic mathematics of shooting reconstruction and includes sample problems at the end of each chapter. It presents case studies that feature those involving the John F. Kennedy and Robert F. Kennedy assassinations. It also details proper photographic documentation and effective courtroom techniques used to present the results of shooting reconstructions to juries, with examples of acceptable demonstrative evidence. Arming the investigator with the means to successfully examine and evaluate what transpired at the scene, *Practical Analysis and Reconstruction of Shooting Incidents* is an important resource to have accessible at all times.

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Shooting Incident Reconstruction Dec 03 2020 Forensic scientists, law enforcement, and crime scene investigators are often tasked with reconstruction of events based on crime scene evidence, and the subsequent analysis of that evidence. The use and misuse of firearms to perpetrate crimes from theft to murder necessitates numerous invitations to reconstruct shooting incidents. The discharge of firearms and the behavior of projectiles create many forms of physical evidence that, through proper testing and interpretation by a skilled forensic scientist, can establish what did and what did not occur. This book is generated from the authors' numerous years of conducting courses and seminars on the subject of shooting incident reconstruction. It seeks to thoroughly address matters from simple to complex in providing the reader an explanation of the factors surrounding ballistics, trajectory, and shooting scenes. The ultimate objectives of this unique book are to assist investigators, crime scene analysts, pathologists, ballistics experts, and lawyers to understand the terminology, science, and factors involved in reconstructing shooting incident events to solve forensic cases. The book will cover the full range of related topics including the range from which a firearm was discharged, the sequence of shots in a multiple discharge shooting incident, the position of a firearm at the moment of discharge, the position of a victim at the moment of impact, the probable flight path of a projectile, the manner in which a firearm was discharged and much more. Written by the most well-respected shooting scene and ballistics experts in the world Contains over 200 full-color diagrams and photographs that support and illustrate key concepts Case studies illustrate real-world application of technical concepts

Firearms and Violence May 20 2022 For years proposals for gun control and the ownership of firearms have been among the most contentious issues in American politics. For public authorities to make reasonable decisions on these matters, they must take into account facts about the relationship between guns and violence as well as conflicting constitutional claims and divided public opinion. In performing these tasks, legislators need adequate data and research to judge both the effects of firearms on violence and the effects of different violence control policies. Readers of the research literature on firearms may sometimes find themselves unable to distinguish scholarship from advocacy. Given the importance of this issue, there is a pressing need for a clear and unbiased assessment of the existing portfolio of data and research. *Firearms and Violence* uses conventional standards of science to examine three major themes - firearms and violence, the quality of research, and the quality of data available. The book assesses the strengths and limitations of current databases, examining current research studies on firearm use and the efforts to reduce unjustified firearm use and suggests ways in which they can be improved.

Bodies of Evidence Jul 18 2019 *Bodies of Evidence* is an informative examination of the science of criminal investigation. It is packed with intriguing case histories involving a variety of forensic evidence and chronicles the role of those who have made the most significant contributions to the fields of toxicology, serology, fingerprinting, forensic ballistics and psychological profiling. If you enjoyed *Gone Girl*, you'll like discovering how forensic science really works.

Forensic Analysis of Gunshot Residue, 3D-printed Firearms, and Gunshot Injuries Jul 22 2022 As technology continues to advance forward, it is crucial that the forensic disciplines maintain their lead over the criminal element. The field of firearm analysis is one such area that has experienced rapid developments, spurred on by recent technological advancements. With the invention of high resolution 3D-printing, new improvements in instrumental techniques such as Raman Spectroscopy and Mass Spectrometry, and improvements in simulation capabilities for ballistic wounding potential, entirely new fields of study have evolved. This book takes an in-depth look at the current state of gunshot residue analysis and wound ballistics, and showcases groundbreaking research in these crucial areas. The ramifications of the availability of 3D-printed firearms are also discussed, with authors submitting evaluations of new and

existing forensic methods on trace analysis of GSR and fingerprinting, as well as potential protocol adaptations to better address the unique challenges of 3D-printed firearms. Whereas this book is primarily oriented toward forensic researchers and practitioners, others with an interest in keeping up with developments in forensic science may find it informative and useful.

Online Child Sexual Exploitation Aug 11 2021 This book examines the modern pandemic of online child sexual exploitation (OCSE). It explores the prevalence, perpetration, impact, and victimization of as well as therapy for child sexual exploitation and its interaction with child sexual abuse. Chapters discuss OCSE from neuropsychological, epidemiological, neurological, behavioral, psychological, clinical, neurobiological and epigenetic perspectives. The volume also addresses the physical and mental impact of early exposure to pornography. The book serves as a resource on an issue that is proving exponentially complex as technology ceaselessly evolves at a faster rate than its consequences can be understood and addressed. Key areas of coverage include: Neuropsychological changes and dysfunctional coping mechanisms resulting from both online and offline child sexual abuse. The psychological, emotional, and physical impacts (e.g., depression, anxiety, PTSD, and self-harm) of child sexual abuse. Prevention and early intervention strategies, including scalable technological responses. Developing a public health approach to preventing and addressing online child abuse and exploitation. Porn culture and its impact on children, adolescents, and emerging adults. The neurobiology and epigenetic impact of trauma. This book is a must-have resource for researchers, clinicians, and graduate students in child and school psychology, public health, social work as well as interrelated disciplines, including neuropsychology, neurobiology, sociology, anthropology, and educational policy and politics.

Ballistic Imaging Mar 18 2022 *Ballistic Imaging* assesses the state of computer-based imaging technology in forensic firearms identification. The book evaluates the current law enforcement database of images of crime-related cartridge cases and bullets and recommends ways to improve the usefulness of the technology for suggesting leads in criminal investigations. It also advises against the construction of a national reference database that would include images from test-fires of every newly manufactured or imported firearm in the United States. The book also suggests further research on an alternate method for generating an investigative lead to the location where a gun was first sold: "microstamping," the direct imprinting of unique identifiers on firearm parts or ammunition.

Forensic Ballistics in Court Oct 13 2021 *Forensic Ballistics in Court: Interpretation and Presentation of Firearms Evidence* is an accessible introduction to firearms and ballistics evidence and how this is analysed and presented as evidence in a court of law. The book approaches the subject in terms of the realities of case work, opening with a clear and illustrated explanation of the correct nomenclature for various weapon types and their parts. Ammunition is also extensively covered, again with annotated illustrations. Basic external and terminal ballistics, wounding capabilities are likewise covered to give an overview of the subject. A key aspect of the book covers the theory and philosophy behind striation matches and the associated statistics, how positive matches should be peer reviewed and the importance accreditation has on this subject. Gunshot residue formation and identification and the various methods used in its analysis are reviewed in depth. This includes a critical examination of the pros and cons of each type of examination and the evidential weight which can be applied to each method. Accessible and reader-friendly introduction to firearms and ballistics. Clarifies the limitations of firearms evidence. Extensive use of global case-studies throughout. Focus on the interpretation and assessment of the weight of firearms/ballistics evidence presented at court. Covers the importance of witness and accused statements and their interpretation in relation to the investigation under review. Includes coverage of gunshot residue collection, examination and interpretation and the potential for contamination of GSR samples. Includes numerous real life case studies that the author has dealt with over the past 45 years. Takes an applied approach to the subject.

The Behavioral Science of Firearms Feb 23 2020 "This book focuses on how the principles and empirical knowledge within behavioral science can inform and improve firearm-related policy, practice, and research. It features a formal framework for the assessment of civilians seeking firearms permits, reinstatement of their firearms subsequent to revocation, and considerations for relevant others"--

Gun Policy. A critical analysis of firearm laws in the United States of America Feb 05 2021 Essay from the year 2015 in the subject Medicine - Public Health, grade: 80, University of South Florida (Post Graduate

School), course: Health Care and Public Administration, language: English, abstract: The American firearm industry seems to be healthier than ever. The demand and production rates have gone seemingly high and there exist constant demand all over the country for firearm. As per the (Washington times, 2015), during 2013 around 10.8 million of guns were manufactured; which is equivalent to the produced units during 2010 to 2012. According to the National Vital Statistics, approximately around 31,000 fatalities are recorded each year. The percentage of gun violence or firearm abuse spreads over; suicide (62per cent), homicide (35per cent) and accidental shootings accounts over 3per cent. (Cornell, 2013). Once an individual possess an ownership of a firearm, it makes the job simple and easy; aim and fire. Everyone in the society are vulnerable as the threshold between homicide and anger is brought down (Lendman, 2012). **Firearms and Fingerprints, Revised Edition** Jan 16 2022 Firearms evidence examination and fingerprint comparison have had a long and interesting history. The role of fingerprints in human identification can actually be traced back several thousand years. The development of the science of fingerprint comparison

and the scientific examination of firearms, however, began in the early 19th century. The goal of the preservation of physical evidence is to associate each piece of evidence with its responsible source, allowing forensic scientists to answer questions regarding the who, what, when, where, how, and why of a crime. *Firearms and Fingerprints, Revised Edition* traces these early beginnings and the icons that laid the groundwork for the current science. Coverage includes the highly specialized education, training, and experience required for current practitioners in the modern forensic laboratory. Providing a thorough examination of the capabilities and limitations of firearms and latent print evidence, this eBook also looks at future possibilities as these fields continue to evolve and looks at the recent legal challenges that have arisen. Author Edward Hueske uses his extensive experience as a forensic scientist, professor, and consultant to paint a detailed picture of this fascinating science, which is sure to engage students. Chapters include: Overview A Brief History of Firearms and Fingerprints and the Scientists Involved Scientific Principles, Instrumentation, and Equipment Forensic Applications The Future.